INPLACE MOISTURE-DENSITY DETERMINATION:
SAND CONE METHOD
Mass Density Control

Location _____ Site No. _____

Watershed _____ Subwatershed _____

Contract No. _____ Contractor _____

Tested by _____ Computed by _____ Checked by _____

Test No.	Date	Location of test			Borrow source, location, and depth	Material classification
		Station	℄ offset	Elevation		

Size of sand cone _____

Test No.	Date	Specification requirements		Test results	
		Moisture range (%)	Mass dry density (lb/ft³)	Moisture (%)	Mass dry density (lb/ft³)

Remarks _____

Volume Determination	Test No.			
1. Bulk density of sand (predetermined) _____				
2. Initial weight of sand, cone, and container _____				
3. Final weight of sand, cone, and container _____				
4. Weight of sand in hole, plate, and cone = (2) – (3) _____				
5. Weight of sand in plate plus cone (predetermined) _____				
6. Weight of sand in hole = (4) – (5) _____				
7. Volume of hole = (6) + (7) _____				

Moisture Determination	Container No.			
Sample tested using: quick dry ☐ oven ☐				
8. Weight of moist sample and container _____				
9. Weight of dry sample and container _____				
10. Weight of moisture = (8) – (9) _____				
11. Weight of container _____				
12. Weight of dry sample = (9) – (11) _____				
13. Moisture content = ((10) + (12)) 100 _____ (%)				
14. Correction for ignition _____ (%)				
15. Corrected moisture content = (13) – (14) _____ (%)				

Density Determination				
16. Total wet weight _____				
17. Total dry weight = [(16) + (100 + (15))] 100 _____				
18. Mass dry density = (17) + (7) _____				

Indicate Weight and Volume Units Used in Test